

## Message Text

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ACTION OES-07

INFO OCT-01 EA-10 ISO-00 ACDA-12 CIAE-00 INR-10 IO-13  
L-03 NSAE-00 EB-08 NRC-05 SOE-02 DODE-00 DOE-15  
SS-15 SP-02 CEQ-01 NSCE-00 SSO-00 ICAE-00 INRE-00  
PA-01 DOEE-00 /105 W  
-----055604 260750Z /23  
O 260653Z APR 78  
FM AMEMBASSY TOKYO  
TO SECSTATE WASHDC IMMEDIATE 7387

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E.O. 11652: N/A  
TAGS: PFOR, TECH, ENRG, JA  
SUBJECT: SCIENCE AND TECHNOLOGY SUBJECT PROPOSED FOR  
PRIME MINISTER'S MEETING WITH PRESIDENT

REF: TOKYO 6932

1. FOLLOW-UP TO PRELIMINARY INDICATION (REFTEL) THAT  
PRIMIN FUKUDA IS DETERMINED TO RAISE SUBJECT OF EXPANDED  
S&T COOPERATION BETWEEN JAPAN AND U.S. FINALLY OCCURRED  
LATE ON APR. 25. EMBOFF WAS CALLED TO MEETING WITH  
WATANABE (DIR., FIRST NA DIV., AMER. AFF. BUREAU),  
YATABE (DEPUTY DIRGEN, UN BUREAU), AND OHTA (DIR., SCI.  
AFF. DIV., UN BUREAU) OF MOFA. STRESSING THAT MEETING  
WAS INFORMAL, "PERSONAL" VIEWS OF EMBOFF WERE SOLICITED  
BY MOFA OFFICIALS ON "NON-PAPER" WHICH WAS SHOWN TO HIM.

2. PAPER STATES THAT PRIMIN WISHES TO POINT OUT TO PRESI-  
DENT IMPORTANCE OF S&T COOPERATION IN CONTEXT OF U.S.-  
JAPAN COOPERATION ON A GLOBAL SCALE", AND EMPHASIZES THAT  
DEVELOPMENT OF NEW ENERGY SOURCES WILL BE NEEDED IN  
REMAINDER OF CENTURY. PRIMIN IS SAID TO PERHAPS BE  
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WILLING TO IDENTIFY SPECIFIC TOPICS FOR JOINT STUDY AND  
TO MAKE SUBSTANTIVE PROPOSALS CONCERNING THEM.

3. MOST PROMISING SUBJECTS MENTIONED ARE (A) FUSION AND  
(B) PHOTOSYNTHESIS. FUSION COOPERATION WOULD INCLUDE  
JAPANESE TECHNICAL AND FINANCIAL PARTICIPATION IN U.S.  
FUSION EXPERIMENTS (SUCH AS DOUBLET III AT GENERAL

ATOMIC) AT LEVEL OF 1.5 BILLION YEN FOR 5 YEARS, AND JOINT DEVELOPMENT OF COMPONENTS FOR JAPANESE JT-60 AND U.S. TFJR AT 1 BILLION YEN PER YEAR FOR 5 YEARS. PHOTOSYNTHESIS COOPERATION COULD CONSIST OF SPONSORING JOINT INSTITUTE IN U.S. WHERE SCIENTISTS FROM BOTH COUNTRIES COULD WORK, AT TOTAL COST OF 10 BILLION YEN PER YEAR, OF WHICH JAPAN WOULD CONTRIBUTE 50 PERCENT. THUS TOTAL ANNUAL JAPANESE FUNDING WOULD AMOUNT TO 7.5 BILLION YEN PER YEAR.

4. PAPER GOES ON TO SAY THAT IF JAPAN IS TO MAKE FIRM DECISION ALONG ABOVE LINES, INDICATION FROM USG SUPPORT AND READINESS TO CONTRIBUTE "FAIR AMOUNT" OF FUNDS WOULD BE ESSENTIAL AND US VIEWS ARE SOLICITED BEFORE PRIMIN'S VISIT.

5. MOFA OFFICIALS WENT ON TO EXPLAIN THAT PRIMIN HAS COMMITTED HIMSELF TO MENTION S&T COOPERATION AS MAJOR ELEMENT OF SPEECH HE WILL MAKE IN NEW YORK BEFORE JAPAN SOCIETY AND FOREIGN POLICY ASSOCIATION, AND WOULD LIKE TO REFER TO JAPAN'S WILLINGNESS TO (A) COOPERATE IN SPECIFIC FIELDS NOTED ABOVE, AND (B) TO EXPLORE FEASIBILITY WITH U.S. OF THESE PROGRAMS.

6. EMBOFF REPLIED THAT HE WAS IMPRESSED WITH PRIMIN'S INTEREST IN EXPANDING S&T COOPERATION WITH U.S. BUT THAT LIMITED OFFICIAL USE

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IT WAS VERY LATE TO BE CONSIDERING SPECIFIC TOPICS IN NON-PAPER AS POSSIBILITIES FOR DISCUSSION WITH PRESIDENT. HE SAID THAT ADVICE FROM WASHINGTON RECEIVED IN MORNING WAS THAT THERE WAS NO TIME LEFT IN AGENDA FOR HEADS OF STATE TO DISCUSS S&T COOPERATION IN ANY SUBSTANTIVE WAY. WATANABE REACTED BY SAYING THAT PRIMIN PLANNED TO MENTION S&T AT LUNCHEON WITH PRESIDENT FOLLOWING FORMAL TALKS. EMBOFF THEN QUESTIONED MEANING OF "PHOTOSYNTHESIS" PROJECT, GIVING DEFINITION OF TERM AS USED BY TECHNICAL PEOPLE AND POINTING OUT THAT TO HIS KNOWLEDGE JAPAN WAS NOT DOING MUCH ON BIOMASS AS ENERGY SOURCE; MOFA OFFICIALS SAID THEY WERE UNFAMILIAR WITH DETAILS BUT THOUGHT THAT PROJECT HAD SOMETHING TO DO WITH HYDROGEN AND THAT INSTITUTE PROPOSED WOULD ACTUALLY BE PART OF NEW U.S. SOLAR ENERGY RESEARCH INSTITUTE IN COLORADO. SCIENCE AND TECHNOLOGY AGENCY'S PHYSICAL-CHEMICAL RESEARCH INSTITUTE WAS SAID TO BE ORIGINATOR OF IDEA. EMBOFF ASKED FOR FURTHER INFO AND MOFA OFFICIALS AGREED TO OBTAIN IT.

7. EMBOFF THEN ASKED IF IT WOULD BE POSSIBLE TO RAISE S&T COOPERATION IN VENUE OF MEETING OF FOREIGN MINISTERS INSTEAD OF HEADS OF STATE. WATANABE SAID THAT THIS WOULD

NOT BE ACCEPTABLE.

8. SPEAKING "PERSONALLY AND UNOFFICIALLY", EMBOFF POINTED OUT THAT POSSIBILITY OF ENTERING INTO JOINT FUSION RESEARCH PROGRAM HAS BEEN UNDER DISCUSSION FOR SOME MONTHS AND CONCLUSION ALREADY HAD BEEN REACHED THAT IT WOULD NOT BE POSSIBLE TO CONCLUDE NEGOTIATIONS AND SIGN AGREEMENT AT TIME OF FUKUDA VISIT. SUBSTANTIVE PROPOSAL, INCLUDING OFFER OF MONEY, OUTLINED IN NON-PAPER PROBABLY WENT BEYOND WHAT TECHNICAL AGENCIES HAD DISCUSSED IN NEGOTIATIONS AND WOULD REQUIRE MUCH MORE CAREFUL CONSIDERATION. THEREFORE IT WOULD BE WISE FOR PRIMIN TO TREAT SUBJECT

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L-03 NSAE-00 EB-08 NRC-05 SOE-02 DODE-00 DOE-15

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GENERALLY RATHER THAN IN SPECIFIC TERMS, CONSIDERING THAT USG WOULD HAVE HAD NO TIME TO PREPARE RESPONSE AND BRIEF PRESIDENT.

9. EMBOFF ALSO NOTED THAT ALTHOUGH BILATERAL NON-NUCLEAR ENERGY R&D AGREEMENT HAD BEEN SIGNED FOUR YEARS AGO, IT STILL HAD NOT BEEN IMPLEMENTED DUE TO FOOT-DRAGGING BY MITI, WHICH IN TURN WAS HANDICAPPED BY LACK OF SUFFICIENT FUNDING FOR THIS TYPE OF WORK FROM MINISTRY OF FINANCE. IMPLEMENTING SOLAR AND GEOTHERMAL ARRANGEMENTS WERE STILL AWAITING SIGNATURE AND IT WOULD HAVE BEEN POSSIBLE TO EXPEDITE THESE IN TIME FOR FUKUDA VISIT IF GOJ REALLY WISHED TO DEMONSTRATE ITS INTEREST IN EXPANDED ENERGY R&D COOPERATION. HE POINTED OUT THAT "PHOTOSYNTHESIS" PROPOSAL PROBABLY FELL WITHIN SCOPE OF THIS AGREEMENT. MOFA OFFICIALS QUICKLY OBTAINED COPY OF AGREEMENT AND SEEMED TO CONCUR. EMBOFF ASKED IF FINANCE MINISTRY

HAD AGREED TO MAKE FUNDS AVAILABLE FOR PROJECTS PROPOSED BY  
PRIMIN AND RESPONSE INDICATED THAT THIS HAD NOT ACCOMPLISH-  
ED YET. (WE DOUBT THAT FINANCE MINISTRY EVEN HAS BEEN  
APPROACHED). LACK OF PROGRESS IN NON-NUCLEAR ENERGY R&D  
COOPERATION WOULD CERTAINLY AFFECT ENTHUSIASM OF US SIDE  
ABOUT ADDITIONAL PROPOSALS FOR ENERGY R&D, EMBOFF SAID,  
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ALTHOUGH SCIENCE AND TECHNOLOGY AGENCY AS PROPOSER OF  
NEW PROGRAMS WAS MORE EFFECTIVE IN INTERNATIONAL  
COOPERATION THAN MITI.

10. MOFA OFFICIALS AGREED IN CONCLUSION THAT EMBASSY  
SHOULD ALERT USG TO FUKUDA'S DETERMINATION TO SAY SOME-  
THING ABOUT S&T COOPERATION TO PRESIDENT AND TO USE S&T  
AS MAJOR THEME OF NEW YORK SPEECH. DEPARTMENT IS ASKED  
TO CONSIDER IF PARTIES COULD AGREE TO GENERAL  
STATEMENT ALONG LINE THAT SCIENCE AND TECHNOLOGY WAS AN  
IMPORTANT PLANK IN U.S.-JAPAN RELATIONS, THAT EXPANDED  
COOPERATION SHOULD BE SOUGHT, AND THAT TWO SIDES WOULD BE  
WORKING TOGETHER IN NEAR FUTURE TO EXAMINE NEW COOPERATIVE  
PROGRAMS, PARTICULARLY IN ENERGY R&D FIELD. WE WOULD  
APPRECIATE RECEIVING ANY ADVICE DEPT. WISHES TO OFFER ON  
WHETHER OR HOW TO PROCEED WITH THIS MATTER. MANSFIELD

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## Message Attributes

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